

IN THE CLAIMS:

Please cancel claim 7, please add new claims 18-21, and amend claims 1-3 and 5 as follows:

1. (Amended) Apparatus for reducing mitral regurgitation, the apparatus comprising:

a bendable elongated body adapted to be inserted into the coronary sinus of a patient in the vicinity of the posterior leaflet of the mitral valve, the elongated body being adjustable between a first configuration adapted to be delivered into the coronary sinus and a second configuration adapted to exert a force onto the posterior annulus, the body comprising:

a flexible spine having a proximal end and a distal end, said flexible spine forming a longitudinal axis from said proximal end to said distal end, a plurality of wire supporting portions extending transversely from said spine, each said portion defining a channel therethrough, said plurality of wire supporting portions defining a plurality of openings therebetween, and a plurality of flexible bridges connecting said plurality of wire supporting portions to one another; and

a flexible wire slideably mounted through said plurality of wire supporting portions extending from ~~on~~ said spine and having a distal end fixed to said spine proximate to the distal end of said spine, and having a proximal portion extending from the proximal end of said spine;

whereby axial movement of said wire causes a change in said spine from the first configuration to the second configuration to exert the force on the posterior annulus and thereby reduce mitral regurgitation.

2. (Amended) The apparatus in accordance with claim 1, wherein the axial movement of said wire through said plurality of wire supporting portions in a proximal direction causes said spine reconfiguration to a lesser curve having a greater radius of curvature.

3. (Amended) The apparatus in accordance with claim 1 wherein the axial movement of said wire in a distal direction through said plurality of wire supporting portions causes said spine to reconfigure to

a more pronounced curve having a lesser radius of curvature.

4. (Original) The apparatus in accordance with claim 1 wherein the first configuration is curved and the second configuration is a selected one of (i) more curved and (ii) less curved.

5. (Amended) The apparatus in accordance with claim 4 wherein the selected one of the second configuration is the less curved configuration, and further wherein the less curved configuration is substantially straight.

6. (Original) The apparatus in accordance with claim 1 wherein said spine is provided with barbs thereon.

7. (Canceled).

8. (Original) The apparatus in accordance with claim 1 wherein loops are fixed to said spine and said

wire extends through said loops and is movable therethrough.

9. (Original) The apparatus in accordance with claim 8 wherein the loops are defined by staples.

10. (Original) Apparatus for reducing mitral regurgitation, the apparatus comprising:

a bendable elongated body adapted to be inserted into the coronary sinus of a patient in the vicinity of the posterior leaflet of the mitral valve, the elongated body being adjustable between a first configuration adapted to be delivered into the coronary sinus and a second configuration adapted to exert a force onto the posterior annulus, the body comprising:

a flexible spine having a proximal end and a distal end; and

a flexible wire mounted on said spine and having a distal end fixed to said spine proximate to the distal end of said spine, and having a proximal portion extending from the proximal end of said spine;

whereby pulling of said wire causes straightening of said spine to move said spine from the first

configuration to the second configuration to exert the force on the posterior annulus and thereby reduce mitral regurgitation.

11. (Original) The apparatus in accordance with claim 10 wherein loops are mounted on said spine and said wire is movable therein.

12. (Original) The apparatus in accordance with claim 11 wherein said loops are staples.

13. (Withdrawn) A method for reducing mitral regurgitation, the method comprising the steps of:

positioning a prosthesis in a coronary sinus, the prosthesis comprising:

a bendable elongated body adapted to be inserted into the coronary sinus of a patient in the vicinity of the posterior leaflet of the mitral valve, the elongated body being adjustable between a first configuration adapted to be delivered into the coronary sinus and a second configuration adapted to exert a force onto the posterior annulus, the body comprising:

a flexible spine having a proximal end and a distal end; and

a flexible wire mounted on said spine and having a distal end fixed to said spine proximate to the distal end of said spine, and having a proximal portion extending from the proximal end of said spine; and

moving the wire axially to cause a change in the spine from the first configuration to the second configuration to exert the force on the posterior annulus and thereby reduce mitral regurgitation.

14. (Withdrawn) A method for reducing mitral regurgitation, the method comprising the steps of:

positioning a prosthesis in a coronary sinus, the prosthesis comprising:

a bendable elongated body adapted to be inserted into the coronary sinus of a patient in the vicinity of the posterior leaflet of the mitral valve, the elongated body being adjustable between a first configuration adapted to be delivered into the coronary sinus and a second configuration adapted to exert a force onto the posterior annulus, the body comprising:

a flexible spine having a proximal end and a distal end; and

a flexible wire mounted on said spine and having a distal end fixed to said spine proximate to the distal end of said spine, and having a proximal portion extending from the proximal end of said spine; and

pulling the wire to straighten the spine to move the spine from the first configuration to the second configuration to exert the force on the posterior annulus and thereby reduce mitral regurgitation.

15. (Withdrawn) A method for reducing mitral regurgitation, the method comprising scarring the mitral valve annulus to cause contraction thereof.

16. (Withdrawn) The method in accordance with claim 15 wherein the scarring is accomplished by injecting a scarring medium into the mitral valve annulus.

17. (Withdrawn) The method in accordance with claim 16 wherein the medium comprises energy selected

from a group of energies consisting of chemical, thermal, cryogenic, laser and radio frequency.

18. (New) Apparatus for reducing mitral regurgitation, the apparatus comprising:

a bendable elongated body adapted to be inserted into the coronary sinus of a patient in the vicinity of the posterior leaflet of the mitral valve, the elongated body being adjustable between a first configuration adapted to be delivered into the coronary sinus and a second configuration adapted to exert a force onto the posterior annulus, the body comprising:

a flexible spine having a proximal end and a distal end; and

a flexible wire mounted on said spine and having a distal end fixed to said spine proximate to the distal end of said spine, and having a proximal portion extending from the proximal end of said spine;

whereby axial movement of said wire causes a change in said spine from the first configuration to the second configuration to exert the force on the posterior annulus and thereby reduce mitral regurgitation;



wherein the axial movement of said wire in a proximal direction causes said spine reconfiguration to a lesser curve having a greater radius of curvature.

19. (New) Apparatus for reducing mitral regurgitation, the apparatus comprising:

a bendable elongated body adapted to be inserted into the coronary sinus of a patient in the vicinity of the posterior leaflet of the mitral valve, the elongated body being adjustable between a first configuration adapted to be delivered into the coronary sinus and a second configuration adapted to exert a force onto the posterior annulus, the body comprising:

a flexible spine having a proximal end and a distal end; and

a flexible wire mounted on said spine and having a distal end fixed to said spine proximate to the distal end of said spine, and having a proximal portion extending from the proximal end of said spine;

whereby axial movement of said wire causes a change in said spine from the first configuration to the second configuration to exert the force on the

posterior annulus and thereby reduce mitral regurgitation;

wherein the axial movement of said wire in a distal direction causes said spine to reconfigure to a more pronounced curve having a lesser radius of curvature.

20. (New) Apparatus for reducing mitral regurgitation, the apparatus comprising:

a bendable elongated body adapted to be inserted into the coronary sinus of a patient in the vicinity of the posterior leaflet of the mitral valve, the elongated body being adjustable between a first configuration adapted to be delivered into the coronary sinus and a second configuration adapted to exert a force onto the posterior annulus, the body comprising:

a flexible spine having a proximal end and a distal end; and

a flexible wire mounted on said spine and having a distal end fixed to said spine proximate to the distal end of said spine, and having a proximal portion extending from the proximal end of said spine;

whereby axial movement of said wire causes a change in said spine from the first configuration to the second configuration to exert the force on the posterior annulus and thereby reduce mitral regurgitation;

wherein loops are fixed to said spine and said wire extends through said loops and is movable therethrough.

21. (New) Apparatus for reducing mitral regurgitation, the apparatus comprising:

a bendable elongated body adapted to be inserted into the coronary sinus of a patient in the vicinity of the posterior leaflet of the mitral valve, the elongated body being adjustable between a first configuration adapted to be delivered into the coronary sinus and a second configuration adapted to exert a force onto the posterior annulus, the body comprising:

a flexible spine having a proximal end and a distal end; and

a flexible wire mounted on said spine and having a distal end fixed to said spine proximate to the distal

end of said spine, and having a proximal portion extending from the proximal end of said spine;

whereby axial movement of said wire causes a change in said spine from the first configuration to the second configuration to exert the force on the posterior annulus and thereby reduce mitral regurgitation;

wherein loops are fixed to said spine and said wire extends through said loops and is movable therethrough; and

wherein the loops are defined by staples.